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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/746,362	12/22/2000	David W. Green	D5407-123 2196 584-25557-US	
44639	7590 07/09/2004		EXAMINER	
CANTOR COLBURN LLP 55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			DAS, CHAMELI	
			ART UNIT	PAPER NUMBER
	_,		2122	

DATE MAILED: 07/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



		······		_
	Application No.	Applicant(s)	$\setminus$	/
055	09/746,362	GREEN ET AL	/\^	′
Office Action Summary	Examiner	Art Unit	LV	
	CHAMELI C. DAS	2122		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ac	ddress	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	66(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this of D (35 U.S.C. § 133).	ly. communication.	
Status				
1) Responsive to communication(s) filed on 14 Ma	ay 2004.			
	action is non-final.			
3) Since this application is in condition for allowar	ice except for formal matters, pro	secution as to the	e merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.		
Disposition of Claims				
4)⊠ Claim(s) <u>1-9 and 11-14</u> is/are pending in the ap	oplication.			
4a) Of the above claim(s) is/are withdraw				
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-9, 11-14</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or	election requirement.			
Application Papers				
9) The specification is objected to by the Examine	۲.			
10) The drawing(s) filed on is/are: a) acce		Examiner.		
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 C	FR 1.121(d).	
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	TO-152.	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).		
<ol> <li>Certified copies of the priority documents</li> </ol>	s have been received.			
<ol><li>Certified copies of the priority documents</li></ol>	· · · · · · · · · · · · · · · · · · ·			
3. Copies of the certified copies of the prior		ed in this National	l Stage	
application from the International Bureau		_		
* See the attached detailed Office action for a list of	or the certified copies not receive	ca.		
Attachment(s)				
) Notice of References Cited (PTO-892)	4) Interview Summary			
<ul> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		O-152)	

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- 1. This action in response to the amendment filed on 5/14/04.
- 2. Claims 1-9 have been amended.
- 3. Claim 10 has been canceled.
- 4. Claims 11-14 have been added.
- 5. Claims 1-9 and 11-14 have been rejected.
- 6. Claims 1, 3, 5, 8-9, 11-12, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helland et al (Helland), US 6,134,594 and further in view of Hardiman et al, (Hardiman), US 5,504,672.
- 7. Claims 2, 4, 6-7, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helland et al (Helland), US 6,134,594 and further in view of Hardiman et al, (Hardiman), US 5,504,672 and official notice.

#### Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3, 5, 8-9, 11-12, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helland et al (Helland), US 6,134,594 and further in view of Hardiman et al, (Hardiman), US 5,504,672.

As per claim 1, Helland discloses:

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- at least one memory store operatively connected to the processing unit (Helland, col 4 lines 62-67)

- extensible N-tier software resident in and executable within the at least one processing unit (Helland, abstract, col 4 lines 3-7, col 7 lines 5-10)
- inventory of software components resident in the memory store (abstract, col 5 lines 37-45)
- wherein a plurality of tiers are generated from the inventory of software components using the N-tier softrware (Helland, col 3, lines 1-5, col 7, lines 48-52, col 23, lines 5-8)
- each tier being associated with at least one other tier, and each tier comprising a
  plurality of software components and performing a predetermined function,
  (Helland, col 6, lines 40-67, col 7, lines 1-40, Figure 2)
- each software component comprising a software object (col 4, lines 25-35, col 7 lines 1-40)
- an input device... processing unit (col 5 lines 13-16)
- an output device ... processing unit (col 5 lines 13-16).

Helland discloses developing a software application by manipulating data (Helland, col 6, lines 22-30). Helland does not specifically disclose manipulating data associated with an asset. However, Hardiman discloses manipulating data associated with an asset (Hardiman, col 11, lines 61-61-67, col 12, lines 1-4). The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for any industrial application.

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As per claim 3, Helland discloses the output device ... combination thereof (Helland,

col 5 lines 45-55, col 6 lines 40-52, col 7 lines 5-10).

#### Regarding claim 5, Helland discloses:

- selecting a first software component from an inventory of software components...
   set of asset (col 23 lines 5-10)
- selecting a second software component from outside the inventory ... to perform a second function (col 6, lines 45-68, col 9 lines 40-60, col 14 lines 38-45)
- defining the sequencing of the first and second software components in order to manipulate data associated with the selected set of assets (col 14, lines 61-66, col 15, lines 1-20, col 8, lines 26-39, col 6, lines 20-35).

For the rest of the limitations see the rejection of claim 1 above.

#### Regarding claim 8, Helland discloses:

- creating one or more processing software components to process data ... predefined amount of data (Helland, col 9 lines 42-48, col 7 lines 26-29, col 9 lines 55 col 10 lines 1-12, col 17 lines 21-27).

#### Regarding claim 9, Helland discloses:

software components are distributed... units (Helland, col 3 lines 61-66, col 4 lines 54-60).

#### As per claim 11, Helland discloses:

a computer storage medium having a computer encoded ... manipulate data (col
 5, lines 18-42).

For the rest of the limitations see the rejection of claims 1 and 5 above.

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As per claim 12, set of assets comprises a set of physical assets (Hardiman, col 11 lines 61-67 and col 12 lines 1-4).

As per claim 14, Helland does not specifically disclose that the software is an asset of the petroleum company. However, Hardiman disclose that the software is an asset of the petroleum company (Hardiman, col 11 lines 61-67, col 12 lines 1-2). The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for an industrial application.

9. Claims 2, 4, 6-7, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Helland et al (Helland), US 6,134,594 and further in view of Hardiman et al, (Hardiman), US 5,504,672 and official notice.

As per claim 2, Helland does not disclose that the software comprises field components, well components and log components. Hardiman disclose to implement the software for petroleum industry. Hardiman does not specifically disclose field components, well components and log components. However, official notice is taken for field components, well components and log components for the oil field. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for petroleum industry efficiently.

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As per claim 4, applications generated using the N-tier software (Helland, Abstract, col 6 lines 41-52, col 7 lines 5-10, col 20 lines 20-30), applications generated using the N-tier software in response to internal trigger, external trigger (col 6 lines 60-63, col 9 lines 20-37).

Helland discloses the additional software may be created (col 4 lines 40-47).

Helland does not specifically disclose that the additional software may be created or modified by user input. However, the back ground section of Helland's disclosure shows the software may be created or modified by user input (col 2 lines 55-62).

The background section does not specifically disclose modified manually by the user. However, official notice is taken for modifying the method *manually* by the user. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a user friendly method.

Helland does not specifically disclose that software is generated *automatically*. However, official notice is taken for *automatically* generating the software. The modification would be obvious because one of the ordinary skill in the art would be motivated to provide as much automation as possible to reduce the work load on the developer and thus make the system easier to use.

#### Regarding claim 6, Helland discloses:

- selecting the software component from an inventory of software components (Helland, col 23 lines 5-10)

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- associating one or more components (Helland, col 14 lines 60- col15 lines 1-45).

Helland does not specifically disclose that the selected software components represent predetermined number of components. However McDonald discloses that implementing a software object by selecting the component which represents the predetermined number of components (McDonald, abstract, col 30 lines 1-6, col 11 lines 51-60). Hardiman disclose that the software is an asset of the petroleum company (Hardiman, col 11 lines 61-67, col 12 lines 1-2). The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for an industrial application.

Neither Helland nor Hardiman disclose that the software comprises field components, well components and log components. However, official notice is taken for field components, well components and log components for the oil field. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for petroleum industry efficiently.

Regarding claim 7, Helland discloses a change menu programmatically accessed (Helland, col 11 lines 27-32). Helland does not disclose change menu may be manually accessed. However, official notice is taken for modifying the method manually by the user. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a user friendly method.

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As per claim 13, Helland does not disclose that the software comprises field components and well components. However, official notice is taken for field components and well components for the oil field. The modification would be obvious because one of the ordinary skill in the art would be motivated to implement a method for petroleum industry efficiently.

#### Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chameli Das whose telephone number is (703) 305-

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1339. The examiner can normally be reached on Monday through Friday from 7:00 A.M

to 3:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Tuan Dam can be reached on 703-305-4552. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306 (official

fax).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-305-

9600.

Chamel C. DAS

PRIMARY EXAMINER

6/23/04